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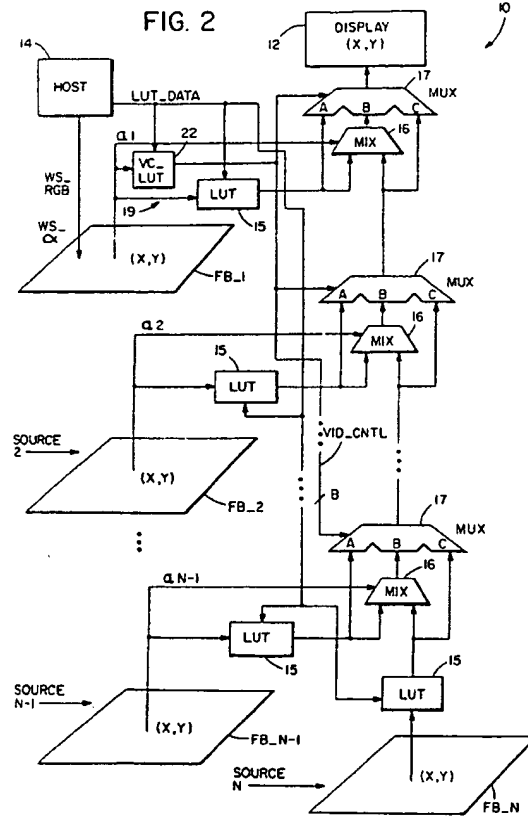
Multi-source image real time mixing and anti-aliasing.

Method and apparatus for implementing a raster graphic display video data path that provides arbitrary mixing of a plurality of images. The video data path is highly parallelized, and employs parallel devices operating under the control of a set of look-up tables (15). The look-up tables are loadable from a controller, such as a host workstation (14). The raster graphic display video data path functions with unlimited screen resolutions, and also enables a variety of different pixel data formats (15) from a potentially large number of different sources. Out-

puts from several image sources are mixed under the control of the host workstation, with a resultant pixel value being based on (a) a combined translucency coefficient (alpha) of the images, for each image source, and (b) a window identification number assigned by the host workstation. Pixel value conversion to a common predetermined format provides coherency between pixel values generated by a number of different image sources, such as HDTV and graphics servers. A separate frame buffer (FB-1 to FB-N) is allocated for each of the sources.

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FIG. 2





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EUROPEAN SEARCH REPORT

Application Number

EP 92 11 1173

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
D,X	US-A-5 001 469 (PAPPAS ET AL.) * column 2, line 26 - line 44 * * column 3, line 6 - column 6, line 15 *	1,10,11	H04N5/272 H04N5/262 G09G1/16
D,Y	---	2-7,12, 13,15-18	
X	GB-A-2 238 214 (QUANTEL LIMITED) * page 7, line 10 - line 25 * * page 12, line 16 - page 14, line 22 *	14	
Y	---	7,12,13, 15-18	
A	---	1-6, 10-12	
Y	EP-A-0 236 943 (THE GRASS VALLEY GROUP, INC.) * the whole document *	2-7	
A	---	12,15,16	
A	US-A-4 357 624 (GREENBERG) * column 4, line 12 - line 46 * * column 13, line 18 - line 68 * * column 20, line 12 - line 68 *	1,4,8, 10,13,15	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
A	FR-A-2 640 837 (BTS BROADCAST TELEVISION SYSTEMS GMBH) * page 1, line 1 - page 3, line 3 * * page 3, line 27 - page 6, line 5 *	1-4,7, 10,12, 15,16,18	H04N
A	EP-A-0 160 549 (AMPEX CORPORATION) * page 7, line 29 - page 9, line 37 *	1,10,15	
D,A	US-A-4 994 912 (LUMELSKY ET AL.) * column 1, line 44 - line 54 * * column 2, line 20 - line 37 *	1,13,15	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30 JUNE 1993	Examiner DE DIEULEVEULT A.J.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			